

PROJECT FACT SHEET

CONTRACT TITLE: Application of Cyclic CO2 Injection Techniques in Slow-to-Respond Wells at the West Mallalieu Field, Lincoln County, Mississippi Miscible CO2 Flood Project/Independent Award

ID NUMBER: DE-FG26-99BC15243

CONTRACTOR: J.P. Oil Company, Inc.

B&R CODE: AC1010000

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PROJECT SITE

CITY: Lafayette

STATE: LA

CITY: West Mallalieu Unit,
Lincoln Co.

STATE: MS

STATE:

CITY:

CONTRACT PERFORMANCE PERIOD:

7/19/1999 to 4/18/2001

PROGRAM: Field Demonstrations

RESEARCH AREA: Improved Oil Recovery;
Independent

PRODUCT LINE: DCS

FUNDING (1000'S)	DOE	CONTRACTOR	TOTAL
PRIOR FISCAL YRS	75	159	234
FY 2001 CURRENT OBLIGATIONS	0	0	0
FUTURE FUNDS	0	0	0
TOTAL EST'D FUNDS	75	159	234

OBJECTIVE: Utilize "Huff and Puff" CO2 well stimulation to define economic expansion areas of CO2 miscible flood, West Mallalieu Field, Lincoln County, Mississippi.

PROJECT DESCRIPTION:

Background: CO2 injection into a four, inverted 5-spot, pilot project was initiated in this field in November of 1986. By late 1988, only three of the pilot producers had responded, and production peaked to 1,700 barrels of oil per day (BOPD) in mid 1989, declining sharply to mid 1991, when the decline steadied to less than 10% per year. The field is capable of sustained production of approximately 200 BOPD but is currently shut-in as being uneconomic.

Work to be Performed: Test three producing wells in a CO2 "huff and puff", cyclic injection and production, manner to improve field and lease economics, and establishing this technique for marginal producer stimulation within the West Mallalieu (WMU) and analogous fields.

PROJECT STATUS:**Current Work:****Scheduled Milestones:**

Initiate CO2 stimulation of well WMU 17-2; observe and monitor production performance	07/00
Initiate CO2 stimulation of well WMU 17-4; observe and monitor production performance	08/00
Initiate CO2 stimulation of well WMU 17-14; observe and monitor production performance	09/00
Complete project report, publish and report results at annual PTTC CO2 Recovery Forum	10/00

Accomplishments: Submitted application to inject and began adjudication process; after approval expected in June, 2000, will begin laying injection line. Began well work preparations are being made to initiate the test by preparing wells for CO2 huff and puff test and to conduct base line (unstimulated) production tests on wells WMU-2, 4 and 14. Found fish in well WMU-2, moved to WMU-2A, discovered shallow casing leak. Moved to WMU-2B, drilled out shallow plug, swabbed and inflow. This is the first well to be used in the test. The field has been re-activated, the operator now has on-going operations in the field.

Status: As of 8-25-2000, CO2 injection has been initiated with 63 mmcf of CO2 having been injected into the reservoir. The CO2 was produced back with very little liquid. The operator is proposing applying the CO2 huff and puff process in another test well in the field.